

Paul's Picks #1:

Spontaneous Trenching Fire Sequence

June 2003

Warren C&D Landfill - Ohio



Note - Site boundaries are approximate.

Warren Recycling Leavittsburg, OH



Site Location
Trumbull Co.,
Ohio

VICINITY MAP



Subsurface Fire ?

- Culprit
 - Poor compaction
 - Decomposition
 - Leachate re-circulation
- Smoke visible along RR tracks
 - Bare spots in winter despite snow cover
 - Wisps of smoke (acrid, burning odor)

Melted Snow



05-11-20

Pipes / Hoses



Tankers / Pallets



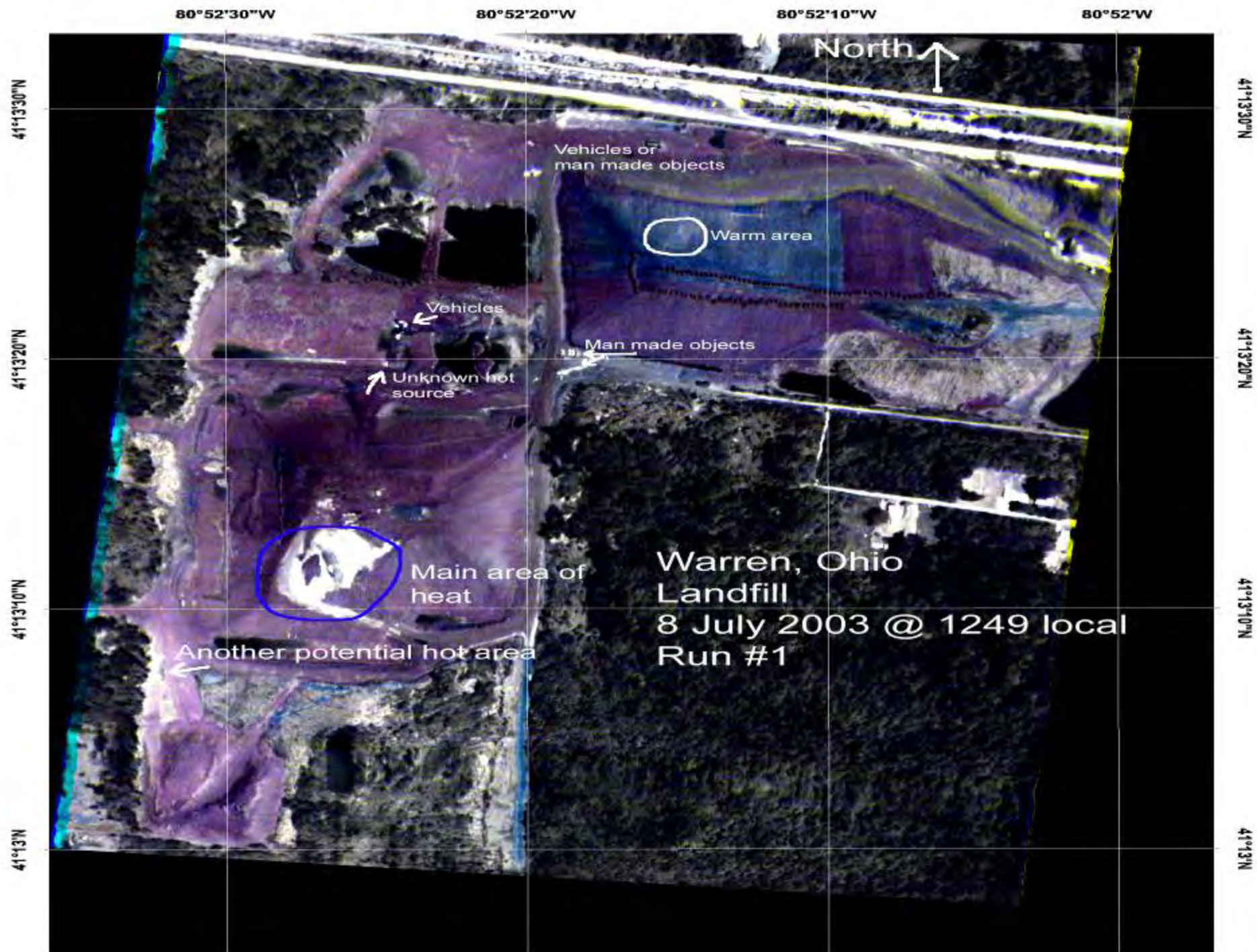
**Usually a surfactant
or wetting agent**

Temp Probes



Aerial Thermograph

- EPA Contractor
 - 7 runs, 2200' elevation, 12:45 – 1:10pm
 - Olympus E20 digital camera
- Temperature & chemical analysis
 - RS-800 Infrared line scanner
 - MR245 FTIR hyper-spectral scanner
- Ambient temperatures on surface
 - Areas of concern
 - Pure white areas above 50°C or 120°F
 - Areas of interest
 - Areas above 28°C or 80°F



80°52'40"W

80°52'30"W

80°52'20"W

80°52'10"W

41°13'30"N

41°13'20"N

41°13'10"N

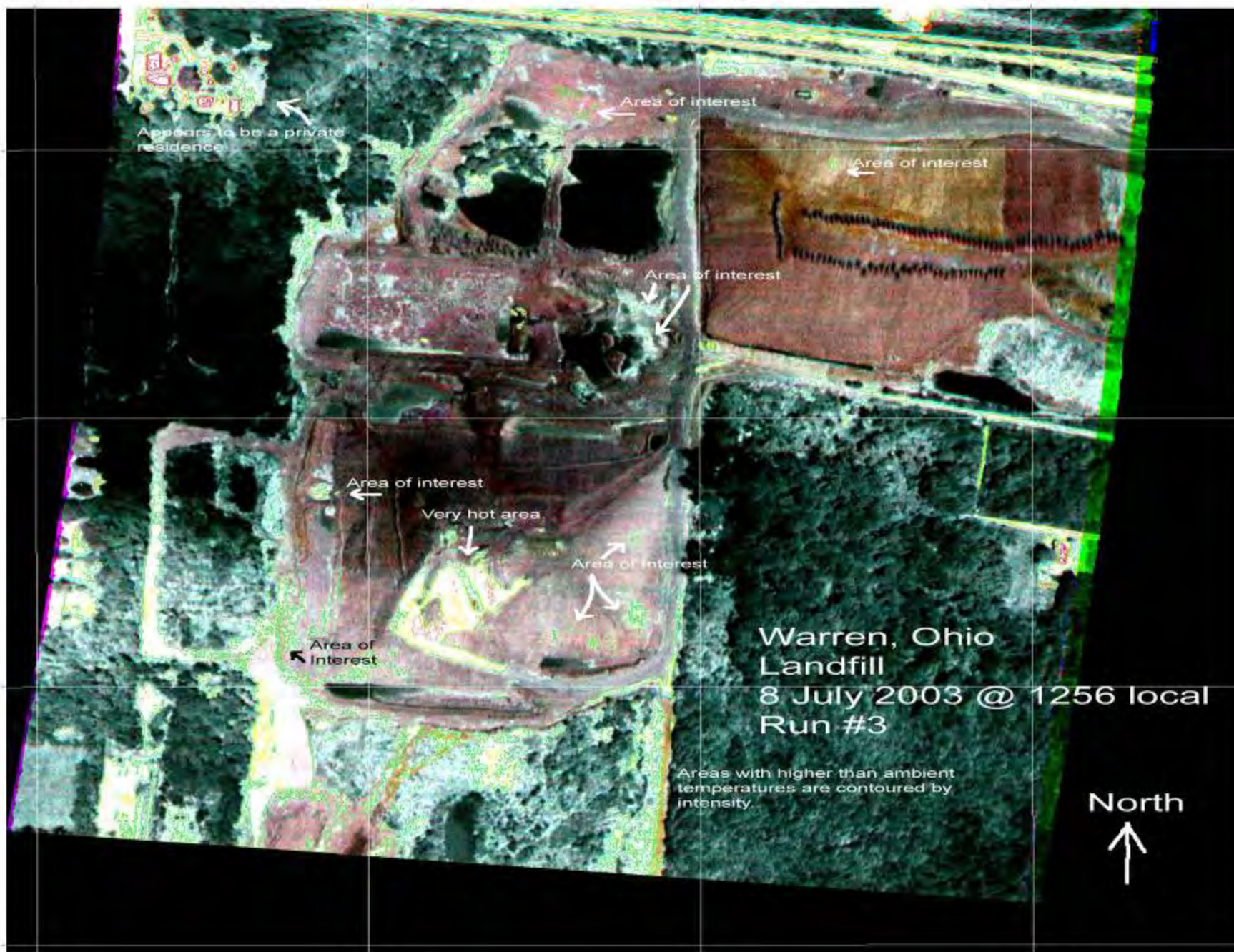
41°13'N

41°13'30"N

41°13'20"N

41°13'10"N

41°13'N



Warren, Ohio
Landfill
8 July 2003 @ 1256 local
Run #3

North
↑

80°52'40"W

80°52'30"W

80°52'20"W

80°52'10"W

The Plan

- Control plan
 - Process, preparation, equipment, personnel
 - Environmental Plan
 - Weather
 - Leachate handling
 - Air quality
 - Safety, contingency
 - Monitoring

To the pumps ...



‘PyroCool’



Game on...



0:00:00



0:00:12



0:00:21



0:00:31



0:00:41



0:01:01



0:01:09



0:03:21



0:09:51



0:10:30



Pop safety quiz ...



00:15:00



0:25:00

